SOIL BORING LOG

O'BRIEN & ASSOCIATES, INC.
CONSULTING ENGINEERS
1235 E. DAWS ST./ARLINGTON HTS., IL 60005
(847)398-1441 • FAX(847) 398-2376

PAGE 1 of 2
DATE August 18, 2011
LOGGED BY AO
OBA JOB No. 11585

ROUTE F.A.P. RTE. 330
DESCRIPTION I-190 Collector-Culvert
SECTION 0105-WRS
LOCATION Mannheim Road Reconstruction, I-190 to North of Higgins, Chicago, IL
COUNTY Cook
DRILLING METHOD Rotary Mud
HAMMER TYPE CME Automatic

STRUCT. NO. –
Station –
BORING NO. CB-01
Station 140+04
Offset 115 ft Left
Ground Surface Elev. 639.2 ft

Surface Water Elev. n/a
Stream Bed Elev. n/a
Groundwater Elevation:
First Encounter n/a
Upon Completion n/a
After n/a Hrs. n/a

Description	Elev.	Depth (ft)	Blows (/6")	UCS Qu (tsf)	Moist (%)
6.0" Black TOPSOIL FILL	638.7				
SILTY CLAY-brown & black-hard (A-6) Fill			4		
			7		
			9	4.5+P	20
	635.7				
Black TOPSOIL wet			3		
			5		
		-5	7	3.25P	26
	633.2				
SILTY CLAY-brown & gray-stiff to hard (A-6)			3		102
			5		
			6	2.9B	21
			3		103
			3		
		-10	3	1.0B	23
			4		113
			8		
			14	4.6B	16
	625.7				
CLAY-gray-stiff to hard (A-6)			5		103
			7		
		-15	10	4.1B	23
			8		
			13		
			13	4.5+P	13
			4		116
			4		
		-20	6	3.5B	15
CLAY-gray-stiff to hard (A-6)			3		112
			4		
			5	1.2B	17
			6		109
			6		
		-25	8	1.8B	19
			5		113
			8		
			14	5.3B	17
	610.7				
SILTY LOAM-gray-dense to very dense (A-4)			18		
			29		
		-30	32	NP	13
			12		
			14		
		-35	19	NP	13
	600.7				
SILTY CLAY-gray-hard (A-6)			8		121
			14		
		-40	16	9.1B	13

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DESCRIPTION I-190 Collector-Culvert
SECTION 0105-WRS
LOCATION Mannheim Road Reconstruction, I-190 to North of Higgins, Chicago, IL
COUNTY Cook
DRILLING METHOD Rotary Mud
HAMMER TYPE CME Automatic

STRUCT. NO. –
Station –
BORING NO. CB-01
Station 140+04
Offset 115 ft Left
Ground Surface Elev. 639.2 ft

Surface Water Elev. n/a
Stream Bed Elev. n/a
Groundwater Elevation:
First Encounter n/a
Upon Completion n/a
After n/a Hrs. n/a

Description	Elev.	Depth (ft)	Blows (/6")	UCS Qu (tsf)	Moist (%)
SILTY CLAY-gray-hard (A-6)					
			11		127
			19		
		-45	23	5.9B	11
			19		122
			21		
	589.2	-50	23	6.1B	13
End of Boring @ -50.0' 4.0" Hollow Stem to -6.0' Rotary Drilling Started at -6.0' CME Automatic Hammer					
		-55			
		-60			
		-65			
		-70			
		-75			
		-80			

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ROUTE F.A.P. RTE. 330
DESCRIPTION I-190 Collector-Culvert
SECTION 0105-WRS
LOCATION Mannheim Road Reconstruction, I-190 to North of Higgins, Chicago, IL
COUNTY Cook
DRILLING METHOD Rotary Mud
HAMMER TYPE CME Automatic

STRUCT. NO. –
Station –
BORING NO. CB-02
Station 140+60
Offset 8.2 ft Left
Ground Surface Elev. 642.2 ft

Surface Water Elev. n/a
Stream Bed Elev. n/a
Groundwater Elevation:
First Encounter n/a
Upon Completion n/a
After n/a Hrs. n/a

Description	Elev.	Depth (ft)	Blows (/6")	UCS Qu (tsf)	Moist (%)
6.0" Black TOPSOIL FILL	641.7				
			6		
			6		
			8	3.5P	17
SILTY CLAY-brown & gray-stiff to hard (A-6)			4		108
			5		
		-5	7	4.4B	19
			4		105
			6		
			9	1.9B	22
			3		112
			3		
		-10	5	2.4B	18
			2		110
			3		
			5	1.0B	20
			2		104
			2		
		-15	3	1.2B	22
	626.2				
CLAY-gray-stiff to very stiff (A-6)			5		113
			8		
			10	2.5B	18
			8		
			9		
		-20	11	--	21
CLAY-gray-stiff to very stiff (A-6)			5		
			6		
			8	--	21
			4		116
		-25	8	1.9B	16
			6		
			9	--	25
			5		109
			9		
		-30	13	3.3B	19
	608.7				
SILTY LOAM-gray-medium dense (A-4)			6		
			9		
		-35	10	NP	16
	603.7				
SILTY CLAY-gray-stiff (A-6)			6		118
			5		
		-40	6	1.8B	16

BOR-14

DELTA ENGINEERING GROUP, LLC	USER NAME = kkhan	DESIGNED	REVISED -
		DRAWN	REVISED -
	PLOT SCALE = $SCALE$	CHECKED	REVISED -
	PLOT DATE = 10/10/2012	DATE 10/19/12	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORING LOG
BOX CULVERT

SCALE: 1" = 50' | SHEET NO. OF SHEETS | STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	0105-WRS	COOK	537	345
		CONTRACT NO. 60P35		
		ILLINOIS FED. AID PROJECT		

FILE NAME = c:\caddlib\pw\kkhan\pwgreat_lakes\dms47849\D160P35-sht-bor-14.dgn